



# SHS15-UNV-H SHS15-UNV-H-YYYY



## Electronic Ballast For Use With UV & Tanning Applications

- Input Voltage/Frequency: 120-277VAC,50/60Hz
- Load Rating: 32W-190W per lamp, 310W Max. Load
- Standard Output Current: 800mA (+/- 10% tolerance)
- Factory Set Output Current Options (+/- 10% tolerance):
  - 800mA-1050mA @310W Max.lamp load
  - 1060mA-1200mA @260W Max.lamp load

### SHS15-UNV-H-YYYY

- Factory Set Output Current Range Option
  - MOQ applies for output current options other than standard 800mA output.
  - Custom output current part number: SHS15-UNV-H-YYYY; Where "YYYY" denotes the desired set output current. For example for 900mA output, order SHS11-UNV-H-0900.
  - See Made-To-Order section for further details and requirements.

## General Specifications

Input Voltage / Frequency	120-277VAC,50/60Hz
Max. Line Current	2.7A@120V
Input Power at Full load	320W
Power Factor	>0.9@220W
Ballast Efficiency	92% @ Full Load (See Figure 1)
Ballast Type	Programmed Rapid Start
Max. Output Voltage / Output Voltage To Ground	388V~
Load Rating	32W-190W per lamp, 310W Max. Load
Number of Lamps	1 or 2
Factory Default Output Current	800mA (+/- 10% tolerance) Factory programming available upon request, MOQ may apply
*Factory Set Output Current Range	800mA - 1200mA (+/- 10% tolerance of set current) *Requires additional lamp and ballast verification testing and approval.
Lamp Type	Four pin T5/T6/PL-L
Lamp Wiring Method	Series Connection (when one lamp fails both lamps will turn off)
Lamp Operating Frequency	>=42KHZ
Lamp Current Crest Factor	<1.7
Number of Lamps Starts	10,000-15,000
Lamp Preheat Time	2.5 Seconds
Remote Operation	30ft (9.144m)
Min.Operating Temperature	-20°C (-4°F)
Tc (Per UL)	84°C (183.2°F)
Lamp ON/OFF Indicator Connection / Recommended Type	Yes / LED Type: 3V/5mA min.
Case Dimensions	L 10" x W 2.8" x H 1.79" (254.0mm x 71.7mm x 45.4mm)
Connectors or Wires	Push in Connectors (Use 0.75mm2~1.5mm2 solid copper wire stripped to 3/8")
Weight	1.56Kg(3.44lb)
Approvals / Standards	UL 935 (USA), CSA C22.2 NO.74-16 / cULus EN/IEC 6137-1, EN/IEC 61347-2-3/ CE (Europe) USA (ANSI/IEEE C62.41) Type 1 Outdoor, Type CC, Type HL, Class P
IP Rating	IP20
RFI / EMI	FCC PART 15B/ PART 18B, Europe_Cispr15
Protections	Input Surge Protection Line-Neutral 2.5KV, Line & Neutral-Ground 2.5KV Over Current Protection End of Life Protection
Max Lamp Load Power	310W Max. @800mA-1050mA / 260W Max. @1060mA-1200mA
Lamps ON/OFF LED Indicator Port	Yes
Ballast ON/OFF LED Indicator Port	Yes
Sound Rating	A
Service Life	50,000 hours lifetime @ Tc 83°C(181.4°F)
Warranty	5 Years @ Tc 83°C(181.4°F) from the date of manufacture when properly installed.

\* Factory set output current options will require additional lamp/ballast verification testing and approval to ensure optimal performance. Fulham must approve lamp/ballast combination before hand.



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**! WARNING**

This product may utilize Germicidal Ultraviolet (UV-C) Lamps. Germicidal ultraviolet rays are harmful to the eyes and skin. Avoid exposure to direct or reflected germicidal ultraviolet rays. Follow all the other safety instructions according to installation sheet.

**UL Lamp List Electrical Data - UV Lamps - 800mA**

**Electrical Data @120VAC**

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
GHO64T5L/4P	1	155	1.300	0.99	0.97	0.62
	2	282	2.362	0.99	0.97	0.34
GPH843T5L/HO/4P (GHO36T5L)	1	83	0.702	0.99	0.97	1.17
	2	167	1.397	0.99	0.97	0.58
GHO357T5L/RPT	N/A	N/A	N/A	N/A	N/A	N/A
	2	65	0.557	0.98	0.97	1.48
GPH1148T5L/HO/4P	1	114	0.956	0.99	0.97	0.85
	2	232	1.938	0.99	0.97	0.42
GPH893T5L/HO/4P (GHO893T5L)	1	87	0.736	0.99	1.25	1.44
	2	175	1.460	0.99	0.97	0.56
GPH846T5L/HO/4P	1	85	0.713	0.99	0.97	1.15
	2	160	1.342	0.99	0.97	0.61
TUV PL-60W/4P/HO	1	74	0.623	0.98	0.97	1.32
	2	145	1.214	0.99	0.97	0.67
TUV PL-95W/4P/HO	1	98	0.820	0.99	0.98	1.01
	2	183	1.533	0.99	0.97	0.53



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UL Lamp List Electrical Data - UV Lamps - 800mA

Electrical Data @230VAC

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
GHO64T5L/4P	1	154	0.693	0.96	0.97	0.63
	2	277	1.218	0.99	0.97	0.35
GPH843T5L/HO/4P (GHO36T5L)	1	83	0.402	0.89	0.97	1.17
	2	164	0.738	0.97	0.97	0.59
GHO357T5L/RPT	N/A	N/A	N/A	N/A	N/A	N/A
	2	66	0.335	0.85	0.97	1.48
GPH1148T5L/HO/4P	1	113	0.525	0.94	0.97	0.86
	2	228	1.004	0.98	0.97	0.43
GPH893T5L/HO/4P (GHO893T5L)	1	87	0.418	0.90	1.25	1.44
	2	172	0.770	0.97	1.25	0.73
GPH846T5L/HO/4P	1	84	0.407	0.90	0.97	1.15
	2	158	0.711	0.96	0.97	0.61
TUV PL-60W/4P/HO	1	73	0.365	0.87	0.97	1.32
	2	144	0.652	0.96	0.97	0.67
TUV PL-95W/4P/HO	1	97	0.458	0.92	0.98	1.01
	2	180	0.805	0.97	0.97	0.54



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UL Lamp List Electrical Data - UV Lamps - 800mA

### Electrical Data @277VAC

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
GHO64T5L/4P	1	153	0.612	0.90	0.97	0.63
	2	274	1.025	0.96	0.97	0.35
GPH843T5L/HO/4P (GHO36T5L)	1	83	0.397	0.75	0.97	1.17
	2	164	0.646	0.91	0.97	0.59
GHO357T5L/RPT	N/A	N/A	N/A	N/A	N/A	N/A
	2	66	0.349	0.68	0.97	1.48
GPH1148T5L/HO/4P	1	114	0.483	0.85	0.97	0.86
	2	228	0.862	0.95	0.97	0.43
GPH893T5L/HO/4P (GHO893T5L)	1	87	0.411	0.77	0.97	1.11
	2	172	0.674	0.92	1.25	0.73
GPH846T5L/HO/4P	1	84	0.403	0.76	0.97	1.15
	2	158	0.628	0.91	0.97	0.61
TUV PL-60W/4P/HO	1	74	0.371	0.72	0.97	1.32
	2	144	0.582	0.89	1.25	0.87
TUV PL-95W/4P/HO	1	97	0.436	0.80	0.98	1.01
	2	180	0.701	0.93	1.25	0.69



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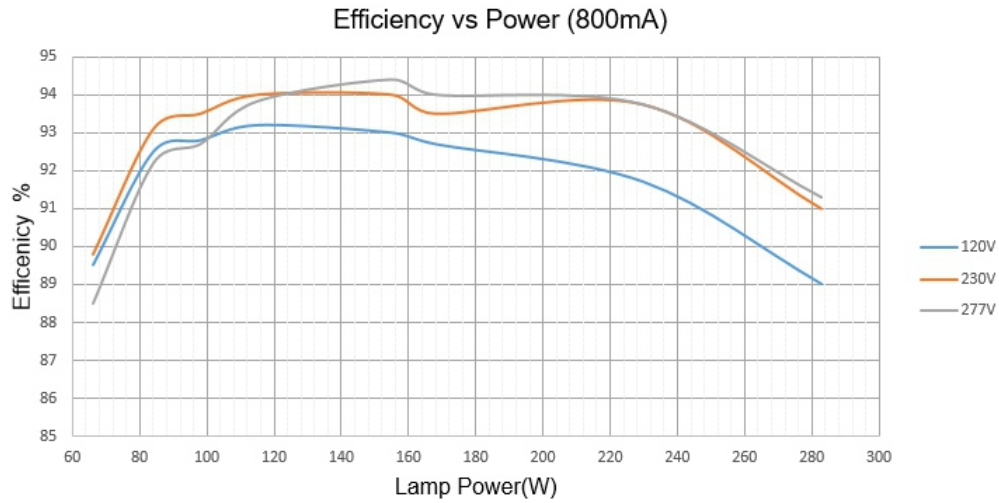


Online Lamp List and Wiring Diagram:  
<https://www.fulham.com/contact-us/wiring-diagrams/>

Scan QR code to be directed to  
lamp chart and wiring-diagram.



Figure 1

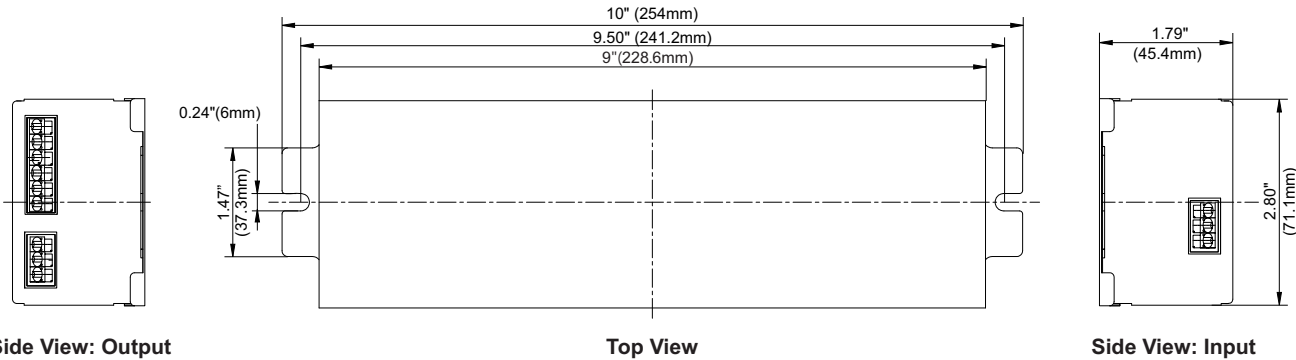




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### Mechanical Data

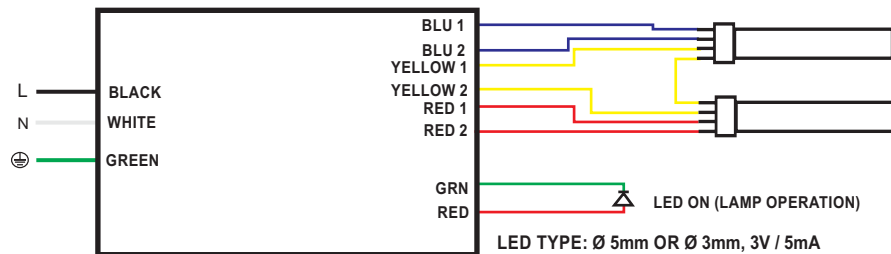
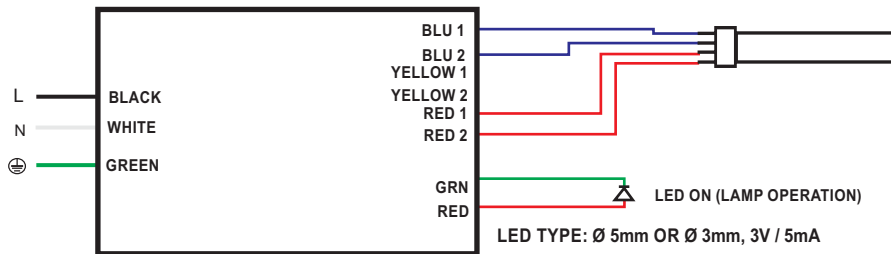


Overall Dimensions	
Length	10.0" [254mm]
Width	2.8" [71.7mm]
Height	1.79" [45.4mm]
Mounting	9.5" [241.2mm]

Where : L = Length, W = Width, H = Height

±0.01" Tolerance

### Wiring Diagram



**Note:**

- 1.) This ballast must be grounded.
- 2.) Use 18AWG solid copper wire stripped to 3/8" with ballast push in connectors.
- 3.) Recommend LED Type: 5mm or 3mm (3V/ 5mA)



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**Part Number Matrix**

**SH**

Product Line

SH = SunHorse

**S**

Ballast Type

S = Standard

**15**

Ballast Order Number

**UNV**

Input Voltage

UNV = 120V~277V

**H**

Case Type

H = Medium

**YYYY**

\* Output Current

Blank = 800mA (Standard Stock Model)  
YYYY = 800mA~1200mA (MTO)

\* Standard stock Model: SHS15-UNV-H (800mA output current)

\* Made to Order (MTO) model: SHS15-UNV-H-YYYY - output current differs from the standard 800mA model. Please see Made-to-Order information section for further details.

**Made-to-Order (MTO) Information For SHS15-UNV-H-YYYY**

Ballasts available as made-to-order with factory set current, depending on the output current desired. Minimum order quantity (MOQ) will apply. When ordering the appropriate output rating please denote the fixed output current based on the ratings range of the model. Replace the YYYY in the part number with the desired current.

Available Options and Additional Notes:

- Factory Set Output Current range: 800mA - 1200mA (+/- 10% tolerance of set current)
- Contact Fulham for further details on lead times and minimum order quantities (MOQ).
- Requires additional lamp/ballast verification testing and approval to ensure optimal performance. Fulham must approve lamp/ballast combination before hand.
- Additional UL verification testing will be needed to UL List lamps not already listed with UL.

**Grounding**

- Ballast must be grounded by means of the driver case or driver ground terminal.

**Short Circuit Protection**

- Output latches off.

**No-load Operation and Protection**

- Output latches off.

**Remote Mounting**

- Up to 30ft with 18AWG.

**Service life / Lifetime**

- 50,000 hours at Tc = 83°C (181.4°F)

**Warranty**

- Reference Fulham's limited Warranty: <https://cdn.fulham.com/PDFs/Limited-Warranty.pdf>



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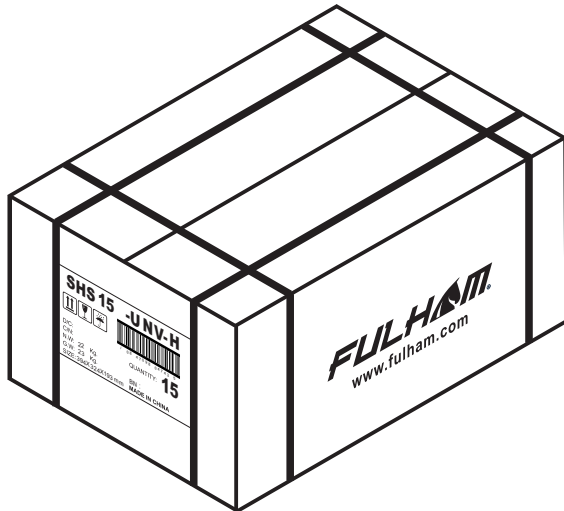


Product Image



Packaging

Master Carton



OUTER DIMENSION		
L	W	H
15.51"(394mm)	12.76"(324mm)	7.60"(193mm)
Net Weight	Gross Weight	QUANTITY
48.5lbs. (22.0kg.)	50.71lbs. (23.0kg)	15pcs.